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> > OCT 0 5 2012

NPDES PERMITS BRANCH (3WP41)

October 4, 2012

Ms. Liz Ottinger Office of Municipal Assistance (3WP24) U.S. Environmental Protection Agency Region III 1650 Arch Street Philadelphia, PA 19103-2029

Subject: Municipal Sanitary Authority of the City of New Kensington

Headworks Analysis for Local Limits Reevaluation

HMM Project 303965

Dear Ms. Ottinger:

On behalf of the Municipal Sanitary Authority of the City of New Kensington, please find enclosed one (1) copy of the Headworks Analysis for Local Limits Reevaluation in hard copy and one (1) copy of the Appendix B Spreadsheet on a CD.

If you have any questions regarding the report, please contact me.

Sincerely,

Hatch Mott MacDonald

Linda French

Project Scientist

Lisida Franch

T 412.497.2912 F 412.497.2901

Linda.French@hatchmott.com

LDF/msr

Enclosures

cc: Joseph Ditty (MSANK)

Daniel H. Rowe, Jr. (MSANK)

Stephen Polen (HMM)

# THE MUNICIPAL SANITARY AUTHORITY OF THE CITY OF NEW KENSINGTON



120 Logans Ferry Road, New Kensington, PA. 15068-2046 Phone (724) 335-9813 - Fax (724) 335-8289

August 8, 2011

Ms. Elizabeth Ottinger U.S. Environmental Protection Agency Region III 1650 Arch Street Philadelphia, PA 19103-2029

MUNICIPAL SANITARY AUTHORITY OF THE CITY OF NEW KENSINGTON NPDES PERMIT NO. PA0027111 HEADWORKS ANALYSIS SAMPLING PLAN

Dear Ms. Ottinger:

On behalf of the Municipal Sanitary Authority of the City of New Kensington (MSANK), please find enclosed the proposed Headworks Analysis Sampling Plan that is being submitted for your review and approval.

It should be noted that there have been no significant changes in the number or type of industrial discharges to the MSANK treatment plant or to the influent, effluent and sludge quality since the previous headworks analysis was conducted in 2004. Based on these considerations, MSANK desires to conduct the required Headworks Analysis in the most cost effective manner possible.

Thank you for your consideration of this matter.

THE MUNICIPAL SANITARY AUTHORITY OF THE CITY OF NEW KENSINGTON

Daniel H. Rowe, Jr.

Manager

Enclosure

Cc:

David Ponchione, P.E. – PADEP Stephen Polen, P.E. – HMM Linda French – HMM

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# HEADWORKS ANALYSIS SAMPLING PLAN

# A. Pollutants to be Evaluated

MSANK proposes to evaluate a total of eighteen parameters as part of the Headworks Analysis. The Headworks Analysis evaluation will consist of the "standard ten" parameters including Arsenic, Cadmium, Chromium, Copper, Cyanide, Lead, Mercury, Nickel, Silver and Zinc. Molybdenum and Selenium will also be evaluated due to their inclusion in EPA's and Pennsylvania sludge quality program. MSANK also has local limitations for Carbonaceous Biochemical Oxygen Demand, Total Suspended Solids, Hexavalent Chromium, Oil and Grease, Temperature and pH. No additional toxic pollutants are listed in the NPDES permit, nor have other priority pollutants been detected at significant levels during the priority pollutant scans conducted during the quarterly monitoring required by the Pretreatment Program.

# **B. Sampling Points**

MSANK proposes the use of five sampling locations to conduct the Headworks Analysis. The proposed sampling locations are:

- 1. Raw Influent the raw influent samples will be collected prior to the influent combining with any recycle or other internal waste streams.
- 2. Influent to Digester
- 3. Final Effluent
- 4. Background samples solely from domestic sources MSANK applies the local limitations to commercial as well as industrial facilities within the service area. The Municipal Water Authority of the City of New Kensington is the sole supplier of potable water within the MSANK service area. MSANK proposes to collect background samples from sewer segments located in residential sections of Lower Burrell, the City of Arnold and the City of New Kensington. The background samples will be collected on the same days that the Influent and Effluent samples are collected.
- 5. Sludge

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# C. Number and Type of Sampling Events

# 1. Historical Sample Data

MSANK proposes to use historical monitoring data from years 2006 to 2010 to supplement the samples to be collected for the Headworks Analysis.

# 2. Proposed Sample Data

In order to assess current plant conditions, MSANK proposes to supplement the referenced historical data by conducting sampling on a daily basis for a five-day period. Grab samples will be collected for Cyanide, Hexavalent Chromium, and Oil and Grease. Temperature and pH will be evaluated through on-site testing procedures. All other parameters will be evaluated using 24-hour composite samples. Proposed sample data includes the following:

# a. Raw Influent and Final Effluent

Five, 24-hour composite samples of the Raw Influent and Final Effluent samples will be collected for analysis. These samples will be analyzed for the eighteen parameters referenced previously.

# b. Influent to Digester

A total of five daily grab samples of Influent to Digester will be collected and analyzed for the <u>non-conservative parameter of Cyanide</u>. The samples will be collected on days when Influent and Effluent samples are being collected.

# c. Background

Six, 24-hour composite samples of Background wastewater from domestic sources will be analyzed for the eighteen parameters referenced previously. Two samples will be collected from a background sampling location in New Kensington, two samples will be collected from a sampling location in Arnold and two samples will be collected from a sampling location in Lower Burrell.

# d. Sludge

Five samples of sludge will be collected from the belt filter press area at the treatment plant. In order to obtain a representative sample, grab samples of sludge will be collected and then combined to form a single composite sample of sludge that will be analyzed for the eighteen parameters referenced previously. One composite sample of sludge will be collected per day, over a five-day period. Sludge samples will be collected on days when Influent and Effluent samples are being collected.

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# D. Analytical Methods/Detection Levels

MSANK proposes to conduct all pollutant analyses using EPA methodology with the most sensitive detection levels available for each method. A listing of the parameters and the proposed analytical methods are as follow:

Parameter	Analytical Method	Parameter	Analytical Method
Arsenic	SM18 3113B	Total Suspended Solids	SM18 2540D
Cadmium	EPA 200.8	Hexavalent Chromium	EPA 218.4
Chromium	EPA 200.8	Oil and Grease	EPA 1664A
Copper	EPA 200.7	pH	EPA 150.1
Cyanide	EPA 335.3	Lead	SM18 3113B
	Analytical		Analytical
Parameter	Method	Parameter	Method
Mercury	SM18 3112B	Temperature	SM18 2550B
Nickel	EPA 200.8	Carbonaceous Biochemical	
Silver	EPA 272.2	Oxygen Deman d	EPA 405.1
Zinc	EPA 200.7		
Molybdenum	EPA 200.8		
Selenium	SM18 3114B		

# E. Schedule

MSANK proposes to conduct the required headworks analysis under the following schedule:

Sample Collection	September 2011
Evaluation of Sample Collection Data	October 2011
Headwork Analysis / Local Limits Reevaluation	November 2011
Submission of Local Limits Reevaluation to EPA	December 2011





Re: FW: New Kensington Followup Headwork Analysis 🗎

John Lovell to: Ponchione, David

Cc: Elizabeth Ottinger

07/13/2011 03:59 PM

Dave - Sorry about losing the file. I did take a look at the data and I don't think that it justifies skipping the local limits reevaluation. There are 3 reasons why I came to that conclusion.

1 - I think the data that they submitted shows that the removal for several of the pollutants are not consistent with the removals used in the 2004 local limits evaluation (this is the most recent evaluation that we have). I've attached a spreadsheet that evaluates the removals based on the data that they submitted and shows the 2006 through 2010 average and the 2004 removal. The removals for several pollutants appears to have changed. That would suggest that the local limits for those pollutants may need to be changed.



New Kensington Removals.xlsx

- 2 Looking at the evaluations of the influent and effluent data that we've done with the annual pretreatment reports for the last few years indicates that there have been exceedances of the influent, effluent, and sludge goals for some pollutants. While exceedances of these goals are not violations, they do indicate potential issues with the local limits or the goals that are calculated based on the last limits evaluation. Those issues suggest that the limits (and the goals that are derived from the limits) need to be reevaluated.
- 3 Since 2004 I'm pretty sure you guys have revised some of the water quality standards. Since the water quality standards are used to develop the local limits, that would suggest some of the local limits will change based on the changes in the water quality standards.

Bottom line is that I don't think that there is justification for skipping the limits reevaluation.

Let me know if you have any questions. I'm out on vacation starting tomorrow and won't be back until 7/25, but we can discuss it at that time if you have any questions.

John Lovell Pretreatment Coordinator EPA Region 3 1650 Arch Street Philadelphia, PA 19103-2029 215-814-5790 215-814-2318 (fax - NEW)

"Ponchione, David" Per your request.

07/12/2011 07:52:00 AM

From:

"Ponchione, David" <dponchione@state.pa.us>

To:

John Lovell/R3/USEPA/US@EPA

Date:

07/12/2011 07:52 AM

Subject:

FW: New Kensington Followup Headwork Analysis

Per '	your	rea	uest.
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From: Ponchione, David

**Sent:** Thursday, April 07, 2011 1:05 PM **To:** 'Lovell.John@epamail.epa.gov'

Subject: New Kensington Followup Headwork Analysis

John,

Attached is MSANK's response concerning their request to delay conducting a headwork's analysis until their next NPDES renewal permit is issued. I included the data that was submitted with their April 4th letter. Also enclosed is the March 10, 2011 letter that I sent to them. I'll use your comments in my response.

Thanks, Dave

[attachment "4705\_001.pdf" deleted by John Lovell/R3/USEPA/US]

Avg 2006 - 2010	1	1	64.89	60.94	C	53.25	ij.		48.59		2	52.74	81.60	٠	52.71
2010 Removal		-i	ï	20.00	6	•	ā	ï	17.86		9	33.94	76.19	ř.	ï
2009 Removal		•	73.91	80.82	ı	50.00	•		57.14	10	a	56.76	92.38	r	50.88
2008 Removal	i	i	47.06	61.11	ī	45.45	ì	·	45.45		1	56.21	80.55	6	
2007 Removal	,		73.68	79.73	1	64.29	ř	ř.	73.91	216	п	75.00	69.92	18	54.55
2006 Removal	•	ī	Ē	33.06	ì	1	ï	r	E	1	ı	41.78	82.20	1	ï
2004 Removal	45	29	77.6	72.9	69	81.9	09	40.9	44.4	20	78.2	53.4	36.5	0	77.8
Pollutant	Arsenic	Cadmium	Chromium	Copper	Cyanide	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Zinc	Ammonia	Hex Chrome	Phenolics

2004 removal is the removal from the most recent local limits evaluation.

																Seller I
	Removal		1	47.06	61.11	i	45.45		,	45.45	-	,	56.21	80.55	ı	89
2008	Removal	#VALUE!	#VALUE!	47.0588235	61.1111111	#VALUE!	45.4545455	#VALUE!	#DIV/0!	45.4545455	#VALUE!	#VALUE!	56.2068966	80.5534779	#VALUE!	#VALUE!
2	Eff	<0.01	<0.005	0.009	0.028	<0.007	9000	<0.0003		0.024	<0.01	<0.005	0.127	5.6	<0.005	<0.08
	Inf	<0.01	<0.005	0.017	0.072	<0.005	0.011	<0.001		0.044	<0.012	<0.006	0.29	13.37	<0.005	0.07
	Removal		ı	73.68	79.73		64.29	•	ı	73.91		•	75.00	76.69		54.55
2007	Removal	#VALUE!	#VALUE!	73.6842105	79.7297297	#VALUE!	64.2857143	#VALUE!	#DIV/0i	73.9130435	#VALUE!	#VALUE!	75	76.6949153	#VALUE!	54.5454545
	Eff	<0.01	<0.005	0.005	0.015	0.009	0.005	<0.0002		0.012	<0.01	<0.005	0.071	3.3	<0.005	0.005
	luf	<0.01	<0.005	0.019	0.074	<0.005	0.014	<0.0002		0.046	<0.011	<0.005	0.284	14.16	<0.005	0.011
	Removal	1	rs	81	33.06	2565	a	r	1	ī	r.	3	41.78	82.20	•	
2006	Removal	#VALUE!	#VALUE!	#VALUE!	3	#VALUE!		#VALUE!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	41.777778	82.1989529	#VALUE!	#VALUE!
2	Eff	<0.01	<0.005	<0.008	0.164	0.014	<0.00>	<0.0002		0.03	<0.008	<0.005	0.131	1.7	<0.01	0.13
	Inf	<0.01	<0.005	<0.011	0.245	<0.00>	<0.012	<0.0002		<0.030	<0.008		0.225	9.55	<0.01	<0.13
	Pollutant	Arsenic	Cadmium	Chromium	Copper	Cyanide	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Zinc	Ammonia	Hex Chrome	Phenolics

# New Kensington Removal Calculation

		2	2009				2010	s
Pollutant	Inf	Eff	Removal	Removal	Inf	Eff	Removal	Remova
Arsenic	<0.01	<0.01	#VALUE!	•	<0.01	<0.01	#VALUE!	1
Cadmium	<0.005	<0.005	#VALUE!	ı	<0.005	<0.005	#VALUE!	ı
Chromium	0.023	0.006	73.9130435	73.91	<0.008	<0.007	#VALUE!	
Copper	0.073	0.014	80.8219178	80.82	0.034	0.017	50	50.00
Cyanide	<0.005	<0.008	#VALUE!	3	<0.008	<0.008	#VALUE!	•
Lead	0.01	0.005	50	50.00	<0.007	<0.005	#VALUE!	•
Mercury	<0.0002	<0.0002	#VALUE!	ı	<0.0002	<0.0002	#VALUE!	į.
Molybdenum			#DIV/0!	2012			#DIV/0!	•
Nickel	0.049	0.021	57.1428571	57.14	0.028	0.023	17.85714286	17.86
Selenium	<0.01	<0.01	#VALUE!	21	<0.01	<0.01	#VALUE!	•
Silver	<0.005	<0.005	#VALUE!	rs.	<0.005	<0.005	#VALUE!	
Zinc	0.296	0.128	56.7567568	56.76	0.165	0.109	33.93939394	33.94
Ammonia	21	1.6	92.3809524	92.38	12.6	ω	76.19047619	76.19
Hex Chrome	<0.006	<0.006	#VALUE!	E	<0.01	< 0.01	#VALUE!	ſ.
Phenolics	0.057	0.028	50.877193	50.88	<0.35	<0.24	#VALUE!	

# THE MUNICIPAL SANITARY AUTHORITY OF THE CITY OF NEW KENSINGTON

120 Logans Ferry Road, New Kensington, PA. 15068-2046 Phone (724) 335-9813 - Fax (724) 335-8289

April 4, 2011

Mr. David Ponchione Environmental Engineer Water Management PA Department of Environmental Protection 400 Waterfront Drive Pittsburgh, PA 15222-4745 DECEIVED APR 0 7 2011

Water Management DEP, Southwest Regional Office

Re: Municipal Sanitary Authority of the City of New Kensington

NPDES Permit PA027111 Headworks Analysis

Dear Mr. Ponchione:

On behalf of the Municipal Sanitary Authority of the City of New Kensington (MSANK), this letter responds to your letter dated March 10, 2011. Your letter stated that if MSANK believes the local limits re-evaluation required by their current NPDES permit would result in maintaining the current local limits, a modified evaluation could be submitted to satisfy the local limits re-evaluation requirement.

This submission constitutes MSANK's modified evaluation. A summary of the historical influent, effluent and sludge yearly average data from 2006 though 2010 is attached. This summary demonstrates that the characteristics of the influent, effluent and sludge have remained consistent over the past five years.

The NPDES permit that was issued by the Department of Environmental Protection on June 24, 2010 includes the same permit limitations as the NPDES permit that was in effect when the previous headworks analysis was conducted in 2004. There have been no changes to the sludge standards or known changes to the inhibition criteria.

There have also been no changes to the flow rates, removal rates and background concentrations at the treatment plant. Copies of the treatment plant Monthly Performance Summaries from 2006 through 2010 are attached for your review. These summaries demonstrate that there have been no changes in the effectiveness of the treatment plant processes.

Additionally, the headworks analysis conducted in 2004 resulted in more stringent local limits therefore a headworks re-evaluation to meet the sludge goals is not warranted.

Based on the consistency of the factors referenced above, MSANK believes the re-evaluation would result in maintaining the existing local limits therefore a re-evaluation of the local limits is not necessary at this time. MSANK requests that the requirement to conduct a headworks analysis be delayed until the next NPDES renewal permit is issued.

Thank you for your consideration.

Daniel H. Rowe, Jr.

Manager

Cc Linda French, H.M.M.

File

# MUNICIPAL SANITARY AUTHORITY OF THE CITY OF NEW KENSINGTON WASTEWATER TREATMENT PLANT

# MONTHLY PERFORMANCE SUMMARY

	2000		INFLUENT	ENT					301	DAY AVI	ERAGE - E	30 DAY AVERAGE - EFFLUENT		MAX WEEKLY AVERAGE	EKLY AV	ERAGE	MAX	MAXIMUM DAY	YA	FINAL	
	BYPASS	TREATED	TOTAL	FLOW	8005	ISS	INF. LOAD	AD	CBODS	SST	EFFLUENT LOAD	LOAD	FECAL	CBOD5	TSS	FECAL	CBOD5	SST	FECAL	EFFLUENT	ENT
	FLOW	FLOW	FLOW	MAX	NF.	NF.	8005	TSS	EFF.	EFF	CBODS	SST	COL	Them.		COL	mq/l	_	ا د	23	PH
	MGD	MGD	MGD	MGD	mg/l	1/gm	dr'81	LB/D	mg/l	mg/I	TB'/D	LB/D	排100 ml	TB/D	U/BJ	#100 mi	TB/D	CB70	#/100 ml	ng/I	S.U.
PLANT DESIGN	1	1	6.0	į	204	204	8500	7490								1000			S. S		
PERMIT PA0027111									25	ಜ	1251	1501	2000	37.5 1877	2252	1			1	1.0**	9.0
JANUARY 2010	0.822	4.348	5,170	10.71	1	1	1	1	16	13	729	578	133	24.0 1321	9 19	784	2 18	1849	19900	7.53	6.8
FEBRUARY					1	1	'	'						28.0	27		83	114	1	0.00	7.0
2010	0.399	4.410	4.809	8.13				1	16	22	638	853	36	982	1327	105	2810	5134	1320	0.65	7.4
MARCH 2010	1.842	5.276	7.118	10.90	1	ı	1	1	16	<del>1</del>	952	801	159	19.0	1210	20	1932	3 42	2000	2	7.2
APRIL 2010	885.0	4.322	4.710	8.90	1	ı	1	1	11	3	#	495	24	19.0 728	دا <del>8</del> 8	261	1559	4825	17900	0.88	7.3
MAY 2010	1.329	5.050	6.379	11.40	1	1	1	ı	7	14	396	775	18 miles	9 <u>.0</u>	1305	170	2146	800 <u>2</u>	10100	0.40	6.9 7.5
JUNE 2010	1.399	5.290	6.689	9.36	1	1	1	1	7	9	414	513		12.0 747	83. 17	91	2 <u>7</u>	216	192	0.54	7.2
JULY 2010	0.463	5.094	5.557	8.7	ı	1	1	ı	7	ь	329	23	21 10 161	12.0 578	367	145	1077	30	540	0.38	7.0
AUGUST 2010	0.334	4.462	4.796	9.22	I	1	1	ι	đι	09	254	364	· · · · · · · · · · · · · · · · · · ·	388	70 <u>10</u>	135	1 <u>16</u>	2538	388	0.50	7.1
2010	0.383	3.814	4.197	2,06	1	1	1	1	6	co	218	292	4	304	680 18	S	7 15	2008	995	0.41	6.8 7.4
2010	0.261	4.316	4.577	6.66	1	1	1	1	5	u	179	129	40	223	3 <u>30</u> 161	2	464	370	900	0.44	7.0
2010	1.149	4.080	5.229	11.93	123	1	5064	ı	o	Cit	336	284	179	<u>8.0</u> 580	580 580	272	1581	24 2186	4100	0.31	5.8 7.4
2010	1.346	5.095	6.441	14.98	105	1	5130	ı	13	12	881	ങ	471	13.0 1025	935	3203	1566	22 2297	10900	0.24	7.3
ANNUAL AVERAGE	0.843	4.630	5.473	MAX. 14.98	113	1	5097	ı,	10	10	464	495	113	13.7 738	823 14	508	29 1588	<u>52</u> 2882	7186	0.49	7 <u>.0</u> 7.6
8	- FIVE DAY CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND	BONACEOU	S BIOCHEN	IICAL OX	GEN DEN	AND										П					
ļ.	TOTAL SUSPENDED SOLIDS	DED SOLID	S						*PERMIT LIMIT FOR PERIOD	JMIT FO	OR PERIO	5/1-9/30									
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FECAL COL - FECAL COLIFORM	- FECAL COLIFORM	RM																		$\  \ $	

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# MUNICIPAL SANITARY AUTHORITY OF THE CITY OF NEW KENSINGTON WASTEWATER TREATMENT PLANT 2009 MONTHLY PERFORMANCE SUMMARY

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										100	10.01	C. C							YCEN	DISSOLVED ON	-
								0	D 5/1-9/30	PERMIT LIMIT FOR PERIOD	LIMIT	PERMIT				1		00	MUEN SOLL	- IOTAL SUSPENDED SOLIDS	NEHN
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6 <u>.9</u> 7.4	0.42	21200	1422	1373	762	\$ 12 22 12	678	175	321	365	7	80	-	î		,		4.921	4,309	0.612	2009
7.0 7.4	0.28	8900	1045	128 3640	493	493 15	783	92	271	347	9	<b>±</b>	1	1	1	1	5.62	3.738	3.662	0.076	2009
7.4	0.31	18800	3100	1163	244	1210	469	170	715	338	17	co	ī	1	1	1	6.97	4.710	4.518	0.192	2009
8.5	0.36	720	18 1093	13 677	165	399	7 <u>.0</u> 266	22 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24	190	168	5	5	1	ı	1	1	7.28	3,829	3.688	0.141	SEPTEMBER 2009
7.0 7.3	0.33		2 <u>7</u> 1457	1 <u>2</u> 871	336	445 188	8.0 407	10 mm	235	247	Ch Ch	6	1	ī	,	1	8.70	4.952	4,640	0.312	AUGUST 2009
6 <u>.9</u>	0.45	8800	30 <u>2</u> 9017	9 <u>3</u> 3295	365	65.0 1872	12.0 697	100 M	995	661	25	15	1	1	1	,	10.64	4,997	4,663	0.334	JULY 2009
6.8 7.4	0.37	3100	100 6413	35 2245	99	1187	10.0 497		434	294	9	7	ı	ı	-	ı	10,55	4.499	4,400	0.099	JUNE 2009
6.8 7.3	0.47	11000	1 <u>9</u> 1234	15 975	175	라운	10.0 577	183	342	353	00_	8	1	ì	,	1	7.79	5.335	5,078	0.257	MAY 2009
7.2	0.49	3300	904	10 1074	394	339	7.0 475	ස	290	340	6	7	1	ı	1	1	12.88	5,766	5.355	0.411	APRIL 2009
5.8 7.2	0.49	748	26 1511	22 1279	72	747	608	23	429	389	s c	<sub>D</sub>	1	1	1	1	7.69	5.159	5.002	0.157	MARCH 2009
6 <u>.9</u> 7.3	0.47	13200	3 <u>2</u> 2389	27 2015	4267	16 1131	16.0 1151	246	554	661	9	11	1	1	1	ı	9.82	6.811	5.953	0.858	FEBRUARY 2009
7.5	0.18	14200	1919	<u>12</u> 1132	2054	13 586	10.0 648	831	516	536	10	10	,	1	1	_(a)_	11.31	6.455	5.772	0.683	JANUARY 2009
9.0	1.0**	****				45 2252	37.5 1877	2000	1501	1251	30	25				4					PERMIT PA0027111
. wilete			1.000	- 1 20 10	1000								7490	8500	204	204		6.0	1	i	PLANT
s.u.	mg/l	#100 ml	CB/D	aran	<b>期100 ml</b>	TB/D	TB/D	#100 ml	LB./D	U/BJ	mg/I	mg/l	CB/D	רפיע	mg/l	ng/l	MGD	MGD	MGD	MGD	
Hq	512	6		mg/l	5	_	mg/l	200	TSS	CBOD5	# 3	EFF.	TSS	8005		INF.	MAX.	FLOW	FLOW	FLOW	
n Z	FINAL	AY	MAXIMUM DAY	CROOS	FECAL	CRONS TSS FECAL	CRODS WE	EECAI	30 DAY AVERAGE - EFFLUENT	ERAGE - EFFLUEN	TSS	CRODS 30	OAD	OAO BAN	100	BODE	INFLUENT	INFL	וחשבאדבה	BYBACC	
SAME AND AND		STREET, SQUARE,	The second second										The Person Name of Street, or other Person Name of Street, or	STATE STATE OF	1	STATE OF THE PARTY OF				THE RESIDENCE AND PERSONS ASSESSED.	CASSES AND DESCRIPTION OF THE PERSON NAMED IN

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# MUNICIPAL SANITARY AUTHORITY OF THE CITY OF NEW KENSINGTON WASTEWATER TREATMENT PLANT 2008 MONTHLY PERFORMANCE SUMMARY

			ctivities	truction a	oject cons	suse of pr	noved beca	orarily ren	(a) The influent sampler has been temporarily removed because of project construction activities	ampler ha	fluent s	(a) The in							RM	CAL COLIFO	FECAL COL FECAL COLIFORM
																			YGEN	DISSOLVED OXYGEN	DO - D
										198	ve 9 / 26	** Effective 9 / 26 / 98							OGEN	- AMMONIA NITROGEN	3-N
								٥	D 54-9/30	PERMIT LIMIT FOR PERIOD	LIMITE	PERMIT						SC	NDED SOLI	TOTAL SUSPENDED SOLIDS	
															MAND	XYGEN DI	MICAL O)	IS BIOCHE	BONACEOL	- FIVE DAY CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND	CBOD5 -F
September 1	ı		-																		
6.9 7.4	0.46	9193	66 4585	34 2568	260	17 1158	12.8 871	88	625	507	10	9	6822	5440	123	93	MAX.	6.019	5.406	0.612	AVERAGE
7.3	0.70	13200	4373	2240	556	1321	1259	57	834	759	12	11	-	1	ı	,	13.87	7.587	5,893	1.694	2008
	0.43	8100	98123	933 18	260	357	297	70	253	207	7	6	ı	1	1	1	6,99	4.384	4.237	0.127	2008
	0.36		<u>50</u> 1811	10 675	211	394	7 <u>.0</u> 310	79	271	219		6	1	ı	1	,	8.09	4.274	4.166	0.108	2008
	0.23	_	24 2562	26 2776	444	1 <u>3</u> 731	10.0 655	196 196 196	256	242	5	5	1	1	1	1	12.80	4.477	4.164	0.313	SEPTEMBER 2008
	0.28		1140 1140	12 550	202	12 403	7.0 241	398	237	210	7	6	1	ı	ı	1	5.82	4,030	3.968	0.062	AUGUST 2008
6.8 7.5	0.32	_	1006	738	115	<u>9.0</u> 333	\$3 <u>0</u>	.60	251	272	6	ø,	,	,	1	[a]	9.82	4.905	4.680	0.225	2008
	0.42	7300	138 11682	4 <u>2</u> 3555	104	23 2098	<u>11.0</u> 790	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	583	334	8	6	6767	4886	12		10.15	5.330	5.034	0,296	2008
	0.40	5800	<u>26</u> 1993	1380 81	223	9 679	11 <u>.0</u> 894	20.07	425	591	7	œ	6911	5041	123	91	11.01	7.014	5.989	1.025	2008
	0.64	10400	182 11399	131 8205	370	3 <u>4</u> 2055	1684	85	967	754	19	14	8059	5652	157	120	10.45	6,088	5.758	0.330	APRIL 2008
6.9 7.4	0.51	#	144 10977	<u>75</u> 5717	256	3409	29.0 2358	201	1708	1291	21	16	7537	7311	97	105	14.10	9.160	7.396	1.764	MARCH 2008
	0.71	740	<u>50</u> 4449	3 <u>1</u> 2759	222	19 1433	12 <u>.0</u> 1070	79	1273	950	17	12	5323	4492	74	2	13.57	8.810	7.530	1,280	FEBRUARY 2008
6.7 7.2	0.58	2280	<u>45</u> 2668	18 1282	162	11 679	8 <u>.0</u> 468	79	457	342	88	6	6335	5256	123	57	8.54	6.184	6,062	0.122	JANUARY 2008
9.0	1.0**	1				45 2252	37.5 1877	2000	1501	1251	30	25									PERMIT PA0027111
200000					1000								7490	8500	204	204	****	6.0	***	****	PLANT
		#100元	Q'87	LB/D	#100 ml	TB/D	רשים	#100 ml	TB7D	TB/D	mg/l	mg/l	LB./D	CL87D	mg/l	mg/l	MGD	MGD	MGD	MGD	
PH	CL2 PH	505	mq.	mall	8	ᆚ	mg/l	COL 2	SST	CBOD5 TSS	# 8	EFF.	TSS	BODS TO	NF.	NF.	MAX	FLOW	FLOW	FLOW	
, ,		AY	MAXIMUM DAY	MA	ERAGE	48	MAX. WE	necon	30 DAY AVERAGE - EFFLUENT	ERAGE -	DAY AV	30	200	300	100	3008	INFLUENT	INFL	TOPATED	-1	
T. Landan	The same of	The second	STATE STATE OF	SCHOOL SECTION	The second second	Name and Address of the Owner, where		No. of Lot, House, etc., in such spirits and spirits a					Name and Address of the Owner, where the Owner, which is the Owner, which is the Owner, where the Owner, which is the Owner	The second second	<b>SCHOOL STATE</b>	<b>Commission</b>	STREET, STREET	Concession of the last	Name and Address of the Owner, where	THE REAL PROPERTY.	THE RESERVED TO SECOND

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# MUNICIPAL SANITARY AUTHORITY OF THE CITY OF NEW KENSINGTON WASTEWATER TREATMENT PLANT 2007 MONTHLY PERFORMANCE SUMMARY

			INFLUENT	JENT					30	DAY AV	ERAGE - I	30 DAY AVERAGE - EFFLUENT		MAX. WE	MAX, WEEKLY AVERAGE	ERAGE	MA	2	Y	FINAL	
	BYPASS	TREATED	TOTAL	FLOW	ВОД5	TSS	INF. LOAD	A	CBODS	SST	EFFLUENT LOAD	TLOAD	FECAL	CBOD5	ISS	PECAL	CBOD5	Ц.	FECAL	E	TN
	FLOW	FLOW	FLOW	MAX	INF.	NF.	8008	155	EFF.	- 93	CBODS	138	COL	/Jpm	mg/l	COL	mq/l	۲	COL	CL2	Ή
	MGD	MGD	MGD	MGD	Н	mg/l	aren	LB/0	ı/Bw	mg/l	רפיש	TB./D	#100 ml	Cr870	-	#100 ml	dran	-	#100 ml	mg/i	s.u.
PLANT	****	-	6.0	!	204	204	8500	7490								1000			O-CONO.		
PERMIT									25	30	1251	1501	2000	37 <u>.5</u>	2252 2252	į			1	1.0**	9.0
JANUARY			7000	3 3 2	26.	à	7254	2000	44	<u> </u>	200	1013	o o o o	17.0	1581	636	27	20 E	18400	0.20	6.8
FEBRUARY												1000	3	16.0	29	3	52	138	3695		6.7
2007	0.130	6.066	6,200	9.63	111	118	5504	9658	11	8	651	COOL	20	1075	1690	123	3318	8486	2660	0.4/	1.5
MARCH 2007	1,420	7.020	8.450	12.18	122	200	6382	11013	12	13	899	1006	92	1433	1864	111	5993	34 NS	832	0.34	7.2
APRIL 2007	0.460	6.980	7.440	10.88	74	88	4362	5896	7	6	482	415	58	9 <u>.0</u> 674	513	128	19 1428	1428	1380	0.33	7.2
MAY 2007	0.067	5,358	5.425	8.34	108	141	4864	6346	7	6	309	278	3 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.0 485	359 <u>9</u>	21	866	733 17	276	0.30	8.5
JUNE 2007	0.467	5,050	5.517	98.8	86	140	3870	6390	6	9	296	488	25	8.0 424	14 21 42 21 42	48	2 <u>2</u> 1626	61 4507	3135	0.40	<u>6.7</u> 7.3
JULY 2007	0.202	5.078	5,280	10.1	83	117	3523	4875	6	8	286	406	69	387	862 862	297	16 1070	1937	10400	0.37	7.8
AUGUST 2007	0.676	6.079	6.755	14.45	76	104	3727	5432	9	7	401	503	109	7.0 486	9 759	248	16 1527	3 <u>1</u> 2854	11400	0.39	7.5
SEPTEMBER 2007	0.048	4,617	4.665	7.46	95	160	3698	6126	6	88	256	307	82	9 <u>.0</u> 361	1 <u>0</u> 379	279	1 <u>2</u> 747	98 <u>24</u>	2300	0.33	7.2
OCTOBER 2007	0.062	4.342	4.404	7.6	142	195	5124	7120	တ	12	306	558	57	11.0 579	33.0 1865	124	4 <u>7</u> 2826	192 11545	20900	0.39	6.9 7.3
NOVEMBER 2007	0.360	5,688	6.048	13.03	116	147	5177	6624	10	17	476	747	65	564 564	1180	121	1490	125 4233	3465	0.42	7.4
DECEMBER 2007	1.060	7.380	8.440	13.60	81	101	5175	6712	11	13	810	1015	780	17.0 1417	1854	5015	21 2382	<u>35</u> 3970	10400	0.25	7.5
ANNUAL	0.470	5.904	6.374	MAX. 14.45	99	145	4806	7100	8	10	500	645	141	11 <u>.9</u> 663	1167	595	2 <u>7</u> 2141	65 4156	6964	0.36	6.7 7.5
CBODS -	- FIVE DAY CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND	RONACEO	US BIOCHE	MICAL OX	YGEN DEI	DAND															
	TOTAL SUSPENDED SOLIDS	NDED SOL	DS			$\ $			PERMIT	LIMITE	PERMIT LIMIT FOR PERIOD	D 5/1-9/30	٥								
×	- AMMONIA NITROGEN	ROGEN							Effecti	Effective 9 / 26 / 98	5/98										
FECAL COL - FECAL COLIFORM	- FECAL COLIFORM	ORM																			
				The Carlotte State of the Control of		the same and a same	Section of the last	Charles and the second second							-						

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# MUNICIPAL SANITARY AUTHORITY OF THE CITY OF NEW KENSINGTON WASTEWATER TREATMENT PLANT

# 2006 MONTHLY PERFORMANCE SUMMARY

			INFLUENT	ENT					30	DAY AV	ERAGE -	30 DAY AVERAGE - EFFLUENT		MAX. WE	EKLY AV	ERAGE	MA	MAXIMUM DAY	Y	FINAL	1
	BYPASS	FLOW	FLOW	MAX WAX	BOD5	TSS	BODS T	JAD	CBOD5	TSS	CRODS TSS	TLOAD	FECAL	CBODS TSS FECAL	SSI	FECAL	CBOD5	TSS	FECAL	EFFLUENT	ENT
	MGD	MGD	MGD	MGD	+	lgm	CB./D	10 P	ng/i	mg/l	LB/D	CBJ	抄100 mJ	E J	d/B1	#100 ml	TB/D		#100 mi	mo/	SU
DESIGN	į	1	6.0	I	204	204	8500	7490								1000					
PERMIT PA0027111								1.	25	30	1251	1501	2000	37.5 1877	2252	Į			1	1.0**	9.0
JANUARY 2006	0.279	6.935	7.214	10.30	89	93	4972	5559	<b>6</b> 0	11	516	750	129	13.0 924	22 1608	522	1728	3951	2055	0.25	<u>6.8</u>
FEBRUARY 2006	0.076	5,969	6.045	8.86	108	118	5209	5744	7	cu	341	413	211	8.0	739	919	841	1693	3000	0 16	9.6
MARCH 2006	0.037	5.752	5.789	10.26	116	156	5338	7194	7	o o	311	283	2	9 <u>.0</u> 373	337.6	366	اندا <del>ک</del>	7 10	4440	2 6.16	8.3
APRIL 2006	0.065	5.951	6.016	9.32	114	158	5649	7932	10	4	513	773	62	1 <u>2.0</u> 819	1376	Ŕ	38 149	107	4800	25	6.8
MAY 2006	0,005	6.847	6,852	11.54	91	133	4672	6913	00	50	525	770	13	11.0 979	19 kg 123 424	26	38 A3	10920	1035	0 45	6.9
JUNE 2006	0.174	6.606	6.432	11.69	131	194	6921	10539	7	6	432	672	ß	969	1 P	K.	25 25	56	1284	0.47	6.9
JULY 2006	0.118	5.828	5.946	10.98	11	172	5258	8179	o.	13	320	59.	2 2 2 2	60 60	1241	55	យន	19	470	2	6.9
2006	0.001	4.221	4.222	5.67	157	196	5482	6885	· 12	19	433	665	6	31 <u>.0</u> 1075	1885	228	27.50	182	13500	0 37	6.9
2006	0.287	5.147	5,434	10.71	99	131	4157	5996	8	10	365	522	22	8.0 418	S 13	169	1131	2341	610	0.39	6.6 7.3
2006 NOVEMBER	0.374	5.813	6.187	11.85	\$	132	4241	5921	7	10	408	621	37	1 <u>0.0</u> 720	14.0 1053	104	2774	<u>45</u> 2676	672	0.31	7.4
2006 DECEMBER	0.224	5.813	6.037	11.85	106	165	5155	8217	7	12	405	740	85	760	1801	183	25 2471	3 <u>0</u> 7906	565	0.22	<u>6.9</u> 7.3
2006	0.023	5.236	5.259	7.20	147	214	6352	9302	7	ä	325	456	98	<u>9.0</u> 400	15 673	217	1163 1163	<u>54</u> 2513	1975	0.24	<u>6.7</u> 7.2
AVERAGE	0.139	5.843	5.953	11.85	108	160	5284	7365	ω.	11	408	605	g.	11.3 672	<u>20</u> 1199	251	1953 286 286 286 286 286 286 286 286 286 286	73 4715	2567	0.24	6.8 7.4
DS -	FIVE DAY CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND	BONACEOU	S BIOCHEM	ICAL OXY	GEN DEM	AND					П										
	TOTAL SUSPENDED SOLIDS	ADED SOLID	Š		100				PERMIT	IMIT FO	OR PERIO	*PERMIT LIMIT FOR PERIOD 5/1-9/30									
NH3-N - AMI	AMMONIA NITROGEN	OGEN							- Effective 9 / 26 / 98	09/26	198										
AL COL	AL COLIECT	No.																			

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# Municipal Sanitary Authority of New Kensington Historical Monitoring Data Summary

# Influent Data 2006 - 2010

		700 J	2006	2007	2008	2009	2010
	Units	Goal	Average	Average	Average	Average	Average
CBOD	mg/l	217.3913	99	143	108	145	72
TSS	mg/l	294.1176	134	155	143	132	92
Cyanide	mg/l	0.0229	< 0.009	<0.005	<0.005	<0.005	<0.008
Copper	mg/l	0.1934	0.245	0.074	0.072	0.073	0.034
Lead	mg/l	1.4632	<0.012	0.014	0.011	0.010	<0.007
Zinc	mg/l	0.559	0.225	0.284	0.290	0.296	0.165
Chromium	mg/l	1.3699	< 0.011	0.019	0.017	0.023	<0.008
Nickel	mg/l	0.0794	< 0.030	0.046	0.044	0.049	0.028
Cadmium	mg/l	0.1052	<0.005	<0.005	<0.005	<0.005	< 0.005
Mercury	mg/l	0.02	<0.0002	<0.0002	<0.001	<0.0002	<0.0002
Arsenic	mg/l	0.0125	<0.010	<0.010	< 0.01	<0.01	<0.010
Hex. Chromium	mg/l	0.25	<0.01	<0.005	<0.005	<0.006	<0.010
Selenium	mg/l	1.48	<0.008	<0.011	<0.012	<0.01	<0.01
Silver	mg/l	0.0586		<0.005	<0.006	<0.005	<0.005
Oil and Grease	mg/l	No Goal	<0.005	<9.55	<23.4	31	18.4
рН	s.u.	No Goal	7.2 / 7.6	7.1 / 7.2	7.1 / 7.5	7.2 / 7.6	7.2 / 8.3
Ammonia	mg/l	No Goal	9.55	14.16	13.37	21	12.6
Phosphorus	mg/l	No Goal	9.48	4.07	4.2	6.6	2.4
Phenol	mg/l	50	<0.13	0.011	0.07	0.057	< 0.35
TPH	mg/l	No Goal	<5.0	<5.0	<7.86	6.4	<5.0

# Effluent Data 2006 - 2010

	T	1	2006	2007	2008	2009	2010
	Units	Goal	Average	Average	Average	Average	Average
CBOD	mg/l	25	6	14	17	11	16
TSS	mg/l	30	19	26	41	26	29
Cyanide	mg/l	0.338	0.014	0.009	< 0.007	<0.008	<0.008
Copper	mg/l	0.26	0.164	0.015	0.028	0.014	0.017
Lead	mg/l	0.66	< 0.007	<0.005	<0.006	<0.005	<0.005
Zinc	mg/l	2.18	0.131	0.071	0.127	0.128	0.109
Chromium	mg/l	0.25	<0.008	<0.005	<0.009	<0.006	<0.007
Nickel	mg/l	8.5	0.03	0.012	0.024	0.021	0.023
Cadmium	mg/l	0.087	<0.005	<0.005	<0.005	<0.005	<0.005
Mercury	mg/l	0.008	<0.0002	<0.0002	< 0.0003	<0.0002	<0.0002
Arsenic	mg/l	3.0122	<0.010	<0.01	<0.010	<0.010	<0.010
Hex. Chromium	mg/l	No Goal	<0.010	<0.005	<0.005	<0.006	<0.010
Selenium	mg/l	0.74	<0.008	<0.01	<0.010	<0.010	<0.010
Silver	mg/l	0.088	<0.005	<0.005	<0.005	<0.005	<0.005
Oil and Grease	mg/l	No Goal	5	<5	9.4	<5	<5
рН	s.u.	No Goal	5.9 / 7.0	6.8 / 7.0	6.7 / 7.1	6.6 / 7.2	6.9 / 7.4
Ammonia	mg/l	No Goal	1.7	3.3	2.6	1.6	3
Phosphorus	mg/l	No Goal	11.6	1.3	2.29	1.58	1.1
Phenol	mg/l	1562	0.13	<0.005	<0.08	<0.028	<0.24
TPH	mg/l	No Goal	<5.0	<5.0	<5.0	<5.0	<5.0

# Municipal Sanitary Authority of New Kensington Historical Monitoring Data Summary

# Sludge Data 2006 - 2010

06 (384835- <u></u>	Units	Goal	2006 Average	2007 Average	2008 Average	2009 Average	2010 Average
CBOD	mg/kg	No Goal	10481	6437	1135	1707	15138
% Solids	mg/kg	No Goal	18.5	17.5	18.6	16.4	
Cyanide	mg/kg	No Goal	<1.6	85.7	5.5	9.9	10.5
Copper	mg/kg	1500	718.8	906.9	117.9	856.4	868.8
Lead	mg/kg	300	150.1	152.7	101.8	116.4	125.1
Zinc	mg/kg	2800	2212	2768	2174	2530	3026
Chromium	mg/kg	No Goal	227.9	232.7	171.3	311.6	305.8
Nickel	mg/kg	420	337.4	511.8	474.4	679.1	763.9
Cadmium	mg/kg	41	10.9	7.1	3.1	4.9	10.0
Mercury	mg/kg	17	1.2	1.3	<0.5	0.7	0.3
Arsenic	mg/kg	39	<5.5	<5.9	<4.5	<6.6	<6.4
Hex. Chromium	mg/kg	No Goal	<1.8	<1.4	<0.08	<1.6	<0.06
Selenium	mg/kg	100	14.9	<46.1	<4.4	<6.1	<5.6
Silver	mg/kg	No Goal	29.7	37.3	28.4	<8.9	38.9
Oil and Grease	mg/kg	No Goal	229760	<53433	54573	86557	
pH (min / max)	su.	No Goal	7.6 / 8.5	6.8 / 7.2	6.6 / 7.5	6.8 / 7.4	
Ammonia	mg/kg	No Goal	41.3	6642.1	6454	6089	
Phosphorus	mg/kg	No Goal	14125	951.3	7406.2	20489	
Phenol	mg/kg	No Goal	33.8	30.9	40.3	63.5	36.7
TPH	mg/kg	No Goal	24975	<14029	24889	41273	-



March 10, 2011

Daniel H. Rowe, Jr., Manager The Municipal Sanitary Authority of the City of New Kensington 120 Logans Ferry Road New Kensington, PA 15068-2046

Re: Sewerage

Municipal Sanitary Authority of the City of New Kensington (MSANK) STP

NPDES PA0027111 Headwork's Analysis City of New Kensington Westmoreland County

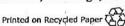
Dear Mr. Rowe:

This is in response to your March 7, 2011 letter.

I contacted U.S. EPA Pretreatment Coordinator, Mr. John Lovell, regarding your request to delay conducting a headwork's analysis until the next permit renewal cycle and learned that MSANK does not qualify to do so. The Department, therefore, cannot approve your request.

40 CFR 122.44(j)(2) requires POTWs provide a "written technical evaluation of the need to revise local limits" after permit issuance, and that is what the headwork's analysis provision is implementing. EPA may have looked favorably at your request if monitoring during the previous permit cycle demonstrated your plant consistently met all of the influent, effluent, and sludge goals established as part of the previous local limits evaluation. However, based on existing data, elevated levels of nickel and zinc (meaning exceedances of the exceptional quality standards for land application of sludge) makes MSANK ineligible to skip the re-evaluation for this permit cycle. Sludge land application standards are the goal even if a POTW does not land apply because one of the objectives of the pretreatment program (40 CFR 403.2) is to improve the opportunity to reclaim and recycle sludge. The exceedances of the sludge goals suggest that the local limits may need to be made more stringent in order for the MSANK STP to meet those goals.

If MSANK believes the re-evaluation would result in maintaining the current local limits, please provide a modified evaluation to satisfy the re-evaluation requirement. Under this approach, please review data that went into the previous evaluation to demonstrate that no changes have occurred. You must demonstrate that the criteria that went into the evaluation (NPDES limits, water quality standards, sludge standards, inhibition criteria) have not changed, and that other site specific data have not changed including flow rates, removal rates and background concentrations. This demonstration must be based on data that has been collected since the last re-evaluation, such as the quarterly influent, effluent, and sludge monitoring data required by the NPDES permit.



Please note that since the permit was re-issued on June 24, 2010, the list of pollutants and sampling plan was due September 24, 2010, and the re-evaluation is due June 24, 2011.

Should you have any questions, please feel free to call Mr. Lovell at the following telephone number: 215.814.5790. You may also write to him at his e-mail address: Lovell.John@epamail.epa.gov or at the following mailing address:

U.S. EPA-Region III Pretreatment Coordinator (3WP41) 1650 Arch Street Philadelphia, PA 19103-2029

Copies of all correspondence and reports dealing with this issue shall be sent to the Department at the address listed below.

Sincerely,

Daws R. Porcher

David R. Ponchione Environmental Engineer Water Management

John Lovell - U. S. EPA Region III cc:

bcc: D. Leone D. Ponchione

r(2) NPDES PA0027111

DRP:lmp